

Release notes for ENDF/B Development n-073\_Ta\_180  
evaluation



April 26, 2017

- inter4web Failures:

1. `AttributeError("columnHeader' object has no attribute 'unit'",)`  
*Run failed!*

```
Traceback (most recent call last):
  File "/home/dbrown/advance/trunk/src/advance/code_runner.py", line 215, in run
    run_results, stdout_result, stderr_result = self._run( workdir, prefix, non_error_list = non_error_list )
  File "/home/dbrown/advance/trunk/src/project_endf/code_runners/inter4web_runner.py", line 306, in _run
    header.append('%s (%s)' % (metric.name,metric.unit))
... [2 more lines]
```

- njoy2012 Warnings:

1. Evaluation has no resonance parameters given  
*unresr...calculation of unresolved resonance cross sections (0): No RR*

```
---message from unresr---mat 7325 has no resonance parameters
copy as is to nout
```

2. Recoil is not given, so one-particle recoil approximation used.  
*heatr...prompt kerma (0): HEATR/hinit (4)*

```
---message from hinit---mf6, mt 16 does not give recoil za= 73179
one-particle recoil approx. used.
```

3. Recoil is not given, so one-particle recoil approximation used.  
*heatr...prompt kerma (1): HEATR/hinit (4)*

```
---message from hinit---mf6, mt 17 does not give recoil za= 73178
one-particle recoil approx. used.
```

4. Recoil is not given, so one-particle recoil approximation used.  
*heatr...prompt kerma (2): HEATR/hinit (4)*

```
---message from hinit---mf6, mt 22 does not give recoil za= 71176
one-particle recoil approx. used.
```

5. Recoil is not given, so one-particle recoil approximation used.  
*heatr...prompt kerma (3): HEATR/hinit (4)*

```
---message from hinit---mf6, mt 28 does not give recoil za= 72179
one-particle recoil approx. used.
```

6. Recoil is not given, so one-particle recoil approximation used.  
*heatr...prompt kerma (4): HEATR/hinit (4)*

```
---message from hinit---mf6, mt 91 does not give recoil za= 73180
one-particle recoil approx. used.
```

7. Recoil is not given, so one-particle recoil approximation used.  
*heatr...prompt kerma (5): HEATR/hinit (4)*

```
---message from hinit---mf6, mt103 does not give recoil za= 72180
one-particle recoil approx. used.
```

8. Recoil is not given, so one-particle recoil approximation used.  
*heatr...prompt kerma (6): HEATR/hinit (4)*

```
---message from hinit---mf6, mt104 does not give recoil za= 72179
one-particle recoil approx. used.
```

9. Recoil is not given, so one-particle recoil approximation used.  
*heatr...prompt kerma (7): HEATR/hinit (4)*

```
---message from hinit---mf6, mt105 does not give recoil za= 72178
one-particle recoil approx. used.
```

10. Recoil is not given, so one-particle recoil approximation used.  
*heatr...prompt kerma (8): HEATR/hinit (4)*

```
---message from hinit---mf6, mt107 does not give recoil za= 71177
one-particle recoil approx. used.
```

11. Evaluation has no resonance parameters given  
*purr...probabalistic unresolved calculation (0): No RR*

```
---message from purr---mat 7325 has no resonance parameters
copy as is to nout
```

12. There is bad Kalbach parameter (r(E) or otherwise)  
*check...ace consistency check (0): ACER/check energy distributions (0)*

```
check energy distributions
  consis: ep.gt.epmax 4.944413E+00 with q.lt.0 for (n,n*c) at e  5.000000E+00 -> 5.000000E+00
```

13. There is bad Kalbach parameter (r(E) or otherwise)  
*check...ace consistency check (1): ACER/check energy distributions (0)*

```
check energy distributions
  consis: shifting eprimes greater than epmax and renorming the distribution
```

14. There is bad Kalbach parameter (r(E) or otherwise)  
*check...ace consistency check (2): ACER/check energy distributions (0)*

```
check energy distributions
  consis: ep.gt.epmax 5.933296E+00 with q.lt.0 for (n,n*c) at e  6.000000E+00 -> 6.000000E+00
```

15. There is bad Kalbach parameter (r(E) or otherwise)  
*check...ace consistency check (3): ACER/check energy distributions (0)*

```
check energy distributions
  consis: shifting eprimes greater than epmax and renorming the distribution
```

16. There is bad Kallbach parameter (r(E) or otherwise)  
*check...ace consistency check (4): ACER/check energy distributions (0)*

```
check energy distributions
  consis: ep.gt.epmax 6.922179E+00 with q.lt.0 for (n,n*c) at e  7.000000E+00 -> 7.000000E+00
```

17. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (5): ACER/check energy distributions (0)*

```
check energy distributions
  consis: shifting eprimes greater than epmax and renorming the distribution
```

18. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (6): ACER/check energy distributions (0)*

```
check energy distributions
  consis: ep.gt.epmax 7.911062E+00 with q.lt.0 for (n,n*c) at e  8.000000E+00 -> 8.000000E+00
```

19. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (7): ACER/check energy distributions (0)*

```
check energy distributions
  consis: shifting eprimes greater than epmax and renorming the distribution
```

20. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (8): ACER/check energy distributions (0)*

```
check energy distributions
  consis: ep.gt.epmax 8.899945E+00 with q.lt.0 for (n,n*c) at e  9.000000E+00 -> 9.000000E+00
```

21. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (9): ACER/check energy distributions (0)*

```
check energy distributions
  consis: shifting eprimes greater than epmax and renorming the distribution
```

22. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (10): ACER/check energy distributions (0)*

```
check energy distributions
  consis: ep.gt.epmax 9.493275E+00 with q.lt.0 for (n,n*c) at e  9.600000E+00 -> 9.500000E+00
```

23. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (11): ACER/check energy distributions (0)*

```
check energy distributions
  consis: shifting eprimes greater than epmax and renorming the distribution
```

24. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (12): ACER/check energy distributions (0)*

```
check energy distributions
  consis: ep.gt.epmax 9.888828E+00 with q.lt.0 for (n,n*c) at e  1.000000E+01 -> 1.000000E+01
```

25. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (13): ACER/check energy distributions (0)*

```
check energy distributions
  consis: shifting eprimes greater than epmax and renorming the distribution
```

26. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (14): ACER/check energy distributions (0)*
- ```
check energy distributions
  consis: ep.gt.epmax 1.048215E+01 with q.lt.0 for (n,n*c) at e 1.060000E+01 -> 1.050000E+01
```
27. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (15): ACER/check energy distributions (0)*
- ```
check energy distributions
  consis: shifting eprimes greater than epmax and renorming the distribution
```
28. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (16): ACER/check energy distributions (0)*
- ```
check energy distributions
  consis: ep.gt.epmax 1.087770E+01 with q.lt.0 for (n,n*c) at e 1.100000E+01 -> 1.100000E+01
```
29. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (17): ACER/check energy distributions (0)*
- ```
check energy distributions
  consis: shifting eprimes greater than epmax and renorming the distribution
```
30. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (18): ACER/check energy distributions (0)*
- ```
check energy distributions
  consis: ep.gt.epmax 1.147103E+01 with q.lt.0 for (n,n*c) at e 1.160000E+01 -> 1.150000E+01
```
31. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (19): ACER/check energy distributions (0)*
- ```
check energy distributions
  consis: shifting eprimes greater than epmax and renorming the distribution
```
32. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (20): ACER/check energy distributions (0)*
- ```
check energy distributions
  consis: ep.gt.epmax 1.186658E+01 with q.lt.0 for (n,n*c) at e 1.200000E+01 -> 1.200000E+01
```
33. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (21): ACER/check energy distributions (0)*
- ```
check energy distributions
  consis: shifting eprimes greater than epmax and renorming the distribution
```
34. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (22): ACER/check energy distributions (0)*
- ```
check energy distributions
  consis: ep.gt.epmax 1.245991E+01 with q.lt.0 for (n,n*c) at e 1.260000E+01 -> 1.250000E+01
```

35. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (23): ACER/check energy distributions (0)*
- ```
check energy distributions
  consis: shifting eprimes greater than epmax and renorming the distribution
```
36. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (24): ACER/check energy distributions (0)*
- ```
check energy distributions
  consis: ep.gt.epmax 1.285547E+01 with q.lt.0 for (n,n*c) at e 1.300000E+01 -> 1.300000E+01
```
37. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (25): ACER/check energy distributions (0)*
- ```
check energy distributions
  consis: shifting eprimes greater than epmax and renorming the distribution
```
38. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (26): ACER/check energy distributions (0)*
- ```
check energy distributions
  consis: ep.gt.epmax 1.344880E+01 with q.lt.0 for (n,n*c) at e 1.360000E+01 -> 1.350000E+01
```
39. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (27): ACER/check energy distributions (0)*
- ```
check energy distributions
  consis: shifting eprimes greater than epmax and renorming the distribution
```
40. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (28): ACER/check energy distributions (0)*
- ```
check energy distributions
  consis: ep.gt.epmax 1.443768E+01 with q.lt.0 for (n,n*c) at e 1.460000E+01 -> 1.450000E+01
```
41. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (29): ACER/check energy distributions (0)*
- ```
check energy distributions
  consis: shifting eprimes greater than epmax and renorming the distribution
```
42. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (30): ACER/check energy distributions (0)*
- ```
check energy distributions
  consis: ep.gt.epmax 1.542656E+01 with q.lt.0 for (n,n*c) at e 1.560000E+01 -> 1.550000E+01
```
43. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (31): ACER/check energy distributions (0)*
- ```
check energy distributions
  consis: shifting eprimes greater than epmax and renorming the distribution
```

44. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (32): ACER/check energy distributions (0)*
- ```
check energy distributions
  consis: ep.gt.epmax 1.641545E+01 with q.lt.0 for (n,n*c) at e 1.660000E+01 -> 1.650000E+01
```
45. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (33): ACER/check energy distributions (0)*
- ```
check energy distributions
  consis: shifting eprimes greater than epmax and renorming the distribution
```
46. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (34): ACER/check energy distributions (0)*
- ```
check energy distributions
  consis: ep.gt.epmax 1.740433E+01 with q.lt.0 for (n,n*c) at e 1.760000E+01 -> 1.750000E+01
```
47. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (35): ACER/check energy distributions (0)*
- ```
check energy distributions
  consis: shifting eprimes greater than epmax and renorming the distribution
```
48. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (36): ACER/check energy distributions (0)*
- ```
check energy distributions
  consis: ep.gt.epmax 1.799766E+01 with q.lt.0 for (n,n*c) at e 1.820000E+01 -> 1.800000E+01
```
49. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (37): ACER/check energy distributions (0)*
- ```
check energy distributions
  consis: shifting eprimes greater than epmax and renorming the distribution
```
50. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (38): ACER/check energy distributions (0)*
- ```
check energy distributions
  consis: ep.gt.epmax 1.839321E+01 with q.lt.0 for (n,n*c) at e 1.860000E+01 -> 1.850000E+01
```
51. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (39): ACER/check energy distributions (0)*
- ```
check energy distributions
  consis: shifting eprimes greater than epmax and renorming the distribution
```
52. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (40): ACER/check energy distributions (0)*
- ```
check energy distributions
  consis: ep.gt.epmax 1.898654E+01 with q.lt.0 for (n,n*c) at e 1.920000E+01 -> 1.900000E+01
```

53. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (41): ACER/check energy distributions (0)*

```
check energy distributions
  consis: shifting eprimes greater than epmax and renorming the distribution
```

54. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (42): ACER/check energy distributions (0)*

```
check energy distributions
  consis: ep.gt.epmax 1.938209E+01 with q.lt.0 for (n,n*c) at e  1.960000E+01 -> 1.950000E+01
```

55. There is bad Kalbach parameter ( $r(E)$  or otherwise)  
*check...ace consistency check (43): ACER/check energy distributions (0)*

```
check energy distributions
  consis: shifting eprimes greater than epmax and renorming the distribution
```